

Why RUST?

Reading into RUST Language and quirks

Lahiru Himesh Madusanka

Lahiru Himesh

CTO Consultant

@

Remote(dot)lk



What is RUST?

a reddish- or yellowish-brown flaking coating of iron oxide that is formed on iron or steel by oxidation, especially in the presence of moisture.

OxfordLanguages



“My favourite answer to this question might be one that just raises more questions.”

Brian Anderson

moz://a

Sponsored by Mozilla in 2009

[https://en.wikipedia.org/wiki/Rust_\(programming_language\)](https://en.wikipedia.org/wiki/Rust_(programming_language))

Memory Safe 🧠

⚙️ **Low-Level Performance**

Atlassian

We use Rust in a service for analysing petabytes of source code.

Figma

Our real-time multiplayer syncing server (used to edit all Figma documents) is written in Rust.



1Password

We use Rust to power the entire backend of all our client apps.

(encryption, networking, database, and business logic)

Learning about Language

Installation on Mac 🍏 & Linux 🐧 is easy

```
curl https://sh.rustup.rs -sSf | sh
```

**On Windows there's a downloadable exe*



**Cargo Space? No... Car
No go space, car go
land 🚗**



What is Cargo?

In Rust, an executable program is known as a Crate

Crates are compiled using `rustc`

OK! But what does it have to do with Cargo?

Similar to NPM packages, Yarn, or gems

Cargo is the package manager for Rust

Let's do a Hello SLIT

I'm confused 🤔

Variables

Mutable

Immutable

Constant

Data Types

All basic data types such as

Integer

Float

Boolean

Char

And more...

Control Flow

We got

If/Else

Loop (with Break)

While

For

More Reading

<https://doc.rust-lang.org/book/>

“Don’t get Rusty”

Maybe some guy on the internet!

Questions?

Thank you!

<https://sdglhm.com>